

ATTORNEY'S DOCKET NO.  
TH1754 (US)**DECLARATION AND POWER OF  
ATTORNEY FOR PATENT APPLICATION**

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled REDUCTION OF THE VISCOSITY OF REACTIVE HEAVY BYPRODUCTS DURING THE PRODUCTION OF 1,3-PROPANEDIOL the specification of which is attached hereto unless the following box is checked:



was filed on October 1, 2003, as United States Application Number or PCT International Application Number 10/676,682 and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

**PRIOR FOREIGN APPLICATION(S)**Priority  
Not Claimed

|                    |         |                      |                          |
|--------------------|---------|----------------------|--------------------------|
| APPLICATION NUMBER | COUNTRY | DAY/MONTH/YEAR FILED | <input type="checkbox"/> |
| APPLICATION NUMBER | COUNTRY | DAY/MONTH/YEAR FILED | <input type="checkbox"/> |

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

|                        |                 |
|------------------------|-----------------|
| APPLICATION SERIAL NO. | FILING DATE     |
| 60/415,676             | October 3, 2002 |
| APPLICATION SERIAL NO. | FILING DATE     |

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) or § 365(c) of any PCT International application designating the United States, listed below and insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

|                        |             |                                     |
|------------------------|-------------|-------------------------------------|
| APPLICATION SERIAL NO. | FILING DATE | STATUS-PATENTED, PENDING, ABANDONED |
| APPLICATION SERIAL NO. | FILING DATE | STATUS-PATENTED, PENDING, ABANDONED |

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

|                   |                |                     |                  |
|-------------------|----------------|---------------------|------------------|
| NAME              | ATTORNEY/AGENT | REGISTRATION NUMBER | TELEPHONE NUMBER |
| Donald F. Haas    | Attorney       | 26,177              | (713) 241-3356   |
| NAME              | ATTORNEY/AGENT | REGISTRATION NUMBER | TELEPHONE NUMBER |
| Richard F. Lemuth | Attorney       | 30,081              | (713) 241-3716   |

Revised June 1995

**SEND CORRESPONDENCE TO:**

**Donald F. Haas**  
**c/o Shell Oil Company**  
**Intellectual Property**  
**P.O. Box 2463**  
**Houston, TX 77252-2463**

# DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

|  |                                     |
|--|-------------------------------------|
| FULL NAME OF SOLE OR FIRST INVENTOR (given name, family name)                  |                                     |
| <b>John Frederick Knifton</b>  |                                     |
| INVENTOR'S SIGNATURE<br><i>John Frederick Knifton</i>                          | DATE SIGNED<br><b>11-11-03</b>      |
| RESIDENCE<br><b>14855 Memorial Drive #2501, Houston, Texas 77079</b>           | CITIZENSHIP<br><b>United States</b> |
| POST OFFICE ADDRESS<br><b>14855 Memorial Drive #2501, Houston, Texas 77079</b> |                                     |

|  |                                     |
|--|-------------------------------------|
| FULL NAME OF SECOND JOINT INVENTOR, IF ANY (given name, family name) |                                     |
| <b>Talmadge Gail James</b>   |                                     |
| SECOND INVENTOR'S SIGNATURE<br><i>Talmadge Gail James</i>            | DATE SIGNED<br><b>11-13-03</b>      |
| RESIDENCE<br><b>3233 Windchase Blvd. #1514, Houston, Texas 77082</b> | CITIZENSHIP<br><b>United States</b> |
| POST OFFICE ADDRESS  |                                     |

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|---|-------------------------------------|
| FULL NAME OF THIRD JOINT INVENTOR, IF ANY (given name, family name) |                                     |
| <b>Paul Richard Weider</b>  |                                     |
| THIRD INVENTOR'S SIGNATURE<br><i>Paul Richard Weider</i>            | DATE SIGNED<br><b>12-02-03</b>      |
| RESIDENCE<br><b>15014 Tramore, Houston, Texas 77083</b>             | CITIZENSHIP<br><b>United States</b> |
| POST OFFICE ADDRESS<br><b>15014 Tramore, Houston, Texas 77083</b>   |                                     |

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|---|-------------------------------------|
| FULL NAME OF FOURTH JOINT INVENTOR, IF ANY (given name, family name)    |                                     |
| <b>Joseph Broun Powell</b>  |                                     |
| FOURTH INVENTOR'S SIGNATURE<br><i>Joe Broun Powell</i>                  | DATE SIGNED<br><b>12-02-03</b>      |
| RESIDENCE<br><b>10506 Normont Drive, Houston, Texas 77070</b>           | CITIZENSHIP<br><b>United States</b> |
| POST OFFICE ADDRESS<br><b>10506 Normont Drive, Houston, Texas 77070</b> |                                     |

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|--|-------------------------------------|
| FULL NAME OF FIFTH JOINT INVENTOR, IF ANY (given name, family name)      |                                     |
| <b>Edward Lewis Nielsen</b>  |                                     |
| FIFTH INVENTOR'S SIGNATURE<br><i>Edward Lewis Nielsen</i>                | DATE SIGNED<br><b>12/01/2003</b>    |
| RESIDENCE<br><b>10722 Fawnview Drive, Houston, Texas 77070</b>           | CITIZENSHIP<br><b>United States</b> |
| POST OFFICE ADDRESS<br><b>10722 Fawnview Drive, Houston, Texas 77070</b> |                                     |

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|   |                      |
|---|----------------------|
| FULL NAME OF SOLE OR FIRST INVENTOR (given name, family name) |                      |
| <b>Glenn Charles Komplin</b>                                  |                      |
| INVENTOR'S SIGNATURE  | DATE SIGNED          |
| <i>Glenn Charles Komplin</i>                                  | <i>Dec 2, 2013</i>   |
| RESIDENCE   | CITIZENSHIP          |
| <b>8034 Shangrila Lane, Houston, Texas 77095</b>              | <b>United States</b> |
| POST OFFICE ADDRESS   |                      |
| <b>8034 Shangrila Lane, Houston, Texas 77095</b>              |                      |

|  |             |
|--|-------------|
| FULL NAME OF SECOND JOINT INVENTOR, IF ANY (given name, family name) |             |
|  |             |
| SECOND INVENTOR'S SIGNATURE  | DATE SIGNED |
|  |             |
| RESIDENCE  | CITIZENSHIP |
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| POST OFFICE ADDRESS  |             |
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|---|-------------|
| FULL NAME OF THIRD JOINT INVENTOR, IF ANY (given name, family name) |             |
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| THIRD INVENTOR'S SIGNATURE  | DATE SIGNED |
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| RESIDENCE   | CITIZENSHIP |
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| POST OFFICE ADDRESS   |             |
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| FULL NAME OF FOURTH JOINT INVENTOR, IF ANY (given name, family name) |             |
|  |             |
| FOURTH INVENTOR'S SIGNATURE  | DATE SIGNED |
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| RESIDENCE  | CITIZENSHIP |
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|---|-------------|
| FULL NAME OF FIFTH JOINT INVENTOR, IF ANY (given name, family name) |             |
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| FIFTH INVENTOR'S SIGNATURE  | DATE SIGNED |
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| RESIDENCE   | CITIZENSHIP |
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| POST OFFICE ADDRESS   |             |
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